

Ts11C

Tenkasi District
Second Mid Term Test - 2023



22-11-2023

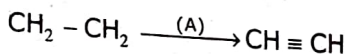
Time: 1.30 Hours

Standard 11
CHEMISTRY
PART - I

Marks: 35

I. Choose the best answer:**5×1=5**

- The product obtained as a result of a reaction of nitrogen with CaC_2 is
a) $\text{Ca}(\text{CN})_2$ b) CaN_2 c) $\text{Ca}(\text{CN})_2$ d) Ca_3N_2
- Which one of the following gases has the lowest value of Henry's law constant?
a) N_2 b) He c) CO_2 d) H_2
- Shape of ClF_3 is:
a) Planar triangular b) Pyramidal
c) "T" shaped d) none of these
- The compound that will react most readily with gaseous bromine has the formula.
a) C_3H_6 b) C_2H_2 c) C_4H_{10} d) C_2H_4



- Where A is

| | |
|----|----|
| | |
| Br | Br |

 a) Zn b) conc. H_2SO_4 c) alc. KOH d) dil. H_2SO_4

II. Choose any three questions:**PART - II****3×2=6**

- Why alkaline earth metals are harder than alkali metals?
- State Henry's law?
- What is Bond enthalpy?
- Write Wurtz reaction?
- What happens when ethylene is passed through cold dilute alkaline potassium permanganate?

III. Answer any three questions:**PART - III****3×3=9**

- Substantiate Lithium fluoride has the lowest solubility among group one metal fluorides?
- Define (i) molality (ii) Normality
- Draw the Lewis Structures for the following species?
i) NO_3^- ii) SO_4^{2-}
- Write Sabatier - Sendersens reactions?
- Explain Markovnikoff's rule with suitable examples?

PART - IV**IV. Answer all the questions:****3×5=15**

- How Lithium differs from other elements in the group?
(OR)
i) Write the biological importance of calcium?
ii) Explain the preparation of plaster of Paris?
- State Raoult law and obtain expressing for lowering of Vapour pressure when non-volatile solute is dissolved in solvent?
(OR)
Discuss the formation of N_2 molecule using MO Theory.
- Discuss the structure of benzene?
(OR)
Write a note on
i) Ozonolysis reaction
ii) Friedel Craft's reaction?

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